

## **SCOPE OF WORK ARRA-STIMULUS FUNDING**

### **ARRA Stimulus Funding Grant Yellow Starthistle Leading Edge Project Contract with UCCE for work in AMADOR / TUOLUMNE**

**Contract will be with:**

The Regents of the University of California  
Division of Agriculture and Natural Resources  
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- I. X CHECK HERE TO CONFIRM THAT NO WORK UNDER THIS AGREEMENT WILL BE CONDUCTED ON FEDERAL LANDS.
- II. HOW WILL PROJECTS BENEFIT FORESTED LANDS?

The long term benefit and positive impacts of yellow starthistle leading edge containment in the region would be the protection of native vegetation and associated wildlife, maintain the desired pristine condition of nearby National Forest and Parks, protect private and state forested areas, provide important recreational use, maintain private property value, increase rangeland forage and water utilization by native plants. Yellow starthistle (YST) grows and spreads very rapidly in disturbed areas. Infestations on county roads pose a significant risk to nearby and adjacent forest lands. Due to the limited distribution of YST in national forest lands and because of its ability to spread rapidly, leading edge surveys and treatment to contain this weed is critical.

III. HOW MANY JOBS WILL BE CREATED?

- A. NEW JOBS CREATED = 0.5 FTE
- B. JOBS RETAINED = 0
- C. OTHER = 0

- IV. X CHECK HERE TO CONFIRM THAT YOU ARE FULLY COMMITTED TO REPORTING AND INVOICING as REQUIRED by ARRA STIMULUS and CDFA REQUIREMENTS.

## PROJECT WORK PLAN(S)

### **I. YELLOW STARThISTLE LEADING EDGE PROGRAM**

**Amador and Tuolumne Counties**

**Project TITLE: Detection and Mapping of Yellow Starthistle along the Eastern Leading Edge of the Sierra Nevada Foothills in Amador and Tuolumne Counties**

**Total Budget, including 10% overhead: \$50,822**

Project description: This project will develop an extensive and thorough detection and mapping protocol for yellow starthistle along the eastern edge of the Sierra Nevada in Amador and Tuolumne Counties. Both of these counties have done some weed mapping in the past; however the eastern edge and outlier populations of yellow starthistle need additional documentation and monitoring. By clearly defining the eastern edge, targeted control efforts can then be developed to keep the population from further spreading and threatening private and public lands. This project has several key priorities:

1. Develop a protocol for mapping yellow starthistle in Amador and Tuolumne Counties.
2. Complete an extensive yellow starthistle survey along the eastern portion on the project area. Establishment of a leading edge/"no spread" line.
3. Identify yellow starthistle outlier populations from previously documented sites.
4. Develop a prioritization for treatment based on site characteristics:
  - a. Proximity to federal, state or other public lands
  - b. Proximity to threatened or endangered species
  - c. Disturbance potential (high traffic areas, construction, road maintenance)
  - d. Other high risk factors (recent wildfire, erosion, flood, etc).
5. Educational outreach
  - a. Educational workshops will be given in numerous locations in both counties to discuss the threats and impacts caused by yellow starthistle and other noxious weeds.
  - b. Landowners identified along the eastern edge will be sent educational materials and control information.

By mapping yellow starthistle in this area, we can prevent the infestation of the forests on private, state and federal lands.

Small incipient populations will be treated as part of this project by hand removal. Control of larger populations will be prioritized with appropriate landowners/managers utilizing mechanical and/or chemical treatments.

Infestation locations, net and gross acreages, treatment type and other pertinent site information will be recorded in a GPS unit and processed using GIS. Select sites will be photographed and changes in percent weed coverage will be documented.

**Project timeframe:**

*Work will begin- January 1, 2010*

*Work will end- December 31, 2011*

**Number of jobs created:**

*New- 0.5*

*Retained- 0*

**Species to be addressed: Yellow Starthistle**

**Control Methods to be utilized:** This project will use mechanical control on small populations and coordinate with county partners for chemical control on larger populations.

**Project monitoring plan (must include % reduction between years or another quantitative measure):**

This project will coordinate closely with the Amador County and Tuolumne County Departments of Agriculture, Cal-Trans, county road departments, city public works, and private landowners.

Once initial surveys are complete, partners will be contacted to coordinate treatments.

Additional surveys will continue detection efforts as well as monitor treatment effectiveness and changes in percent cover. Educational workshops will also be an important part of the overall success of this project. Landowner's identified as part of the detection and mapping survey will be contacted and invited to a number of educational workshops. Landowners along the eastern leading edge will be contacted at the end of the project to determine the number of acres treated and overall percent reduction.

**FISCAL DISPLAY**

**ARRA STIMULUS BUDGET - Yellow Starthistle Leading Edge Program**  
 University of California Cooperative Extension (for work in Amador / Tuolumne)

**January 1, 2010 – December 31, 2011**

	<b>FY 2009/10</b> (January-June 2010)	<b>FY 2010/11</b> (July 2010-June 2011)	<b>FY 2011/12</b> (July - Dec. 2011)
<b>Personnel Services</b>			
UCCE Program Rep I (1557 total hrs. @ \$18.94/hr = \$29,490 total)	\$4,905	\$19,680	\$4,905
Benefits (35%)	\$1,717	\$6,888	\$1,717
<b>Subtotal Personnel Services</b>	<b>\$6,622</b>	<b>\$26,568</b>	<b>\$6,622</b>
<b>Operating Expenses</b>			
Travel: Vehicle Lease UC Davis Fleet Services - 1/2 ton pickup (\$401/month X 6 mon. = \$2406)	\$802	\$1,203	\$401
Travel: Gas (666 gallons @ \$2.85/gallon = \$1898)	\$633	\$949	\$316
Mileage: Workshop Instructors (320 miles @ 55 cents/mile = \$176 total)		\$88	\$88
Supplies: ArcView 9.3 Software - UC License (2 yrs X \$30/yr. = \$60 total)	\$30	\$30	\$0
Supplies: GPS unit, gloves, plastic bags, shovel, workshop supplies (\$114 total)	\$650	\$250	\$249
Educational Materials: printing, mailing (\$700 total)	\$300	\$200	\$200
<b>Subtotal Operating Expenses</b>	<b>\$2,415</b>	<b>\$2,720</b>	<b>\$1,254</b>
<b>Contract Subtotal (Operating Expenses + Personnel Services)</b>	<b>\$9,037</b>	<b>\$29,288</b>	<b>\$7,876</b>
<b>Overhead @ 10%</b>	<b>\$904</b>	<b>\$2,929</b>	<b>\$788</b>
<b>Grand Total by Fiscal Year:</b>	<b>\$9,941</b>	<b>\$32,217</b>	<b>\$8,664</b>
<b>Contract Grand Total:</b>	<b>\$50,822</b>		